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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/807,555	03/23/2004	Paul Keane	P-4461/2 RI	3418
7590 04/06/2005		EXAMINER		
David W Highet Esq			ZEC, FILIP	
	on and Company			
1 Becton Drive			ART UNIT	PAPER NUMBER
Franklin Lakes, NJ 07417			3744	
			DATE MAILED: 04/06/2004	ς .

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)				
	10/807,555	KEANE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Filip Zec	3744				
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a r  - If NO period for reply is specified above, the maximum statutory perion  - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a eply within the statutory minimum of thi od will apply and will expire SIX (6) MOI tute, cause the application to become A	reply be timely filed  rly (30) days will be considered timely.  NTHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 23	March 2004.					
2a) This action is <b>FINAL</b> . 2b) ⊠ T	This action is FINAL. 2b)⊠ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) <u>25-57</u> is/are pending in the applicated 4a) Of the above claim(s) is/are withd 5) ⊠ Claim(s) <u>25-37</u> is/are allowed. 6) ⊠ Claim(s) <u>38-42 and 46-53</u> is/are rejected. 7) ⊠ Claim(s) <u>43-45 and 54-57</u> is/are objected to 8) □ Claim(s) are subject to restriction and	rawn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Exami 10)☒ The drawing(s) filed on 23 March 2004 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the corr 11)☐ The oath or declaration is objected to by the	e: a)⊠ accepted or b)□ ob he drawing(s) be held in abeya ection is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a li	ents have been received. ents have been received in A riority documents have beer eau (PCT Rule 17.2(a)).	Application No  n received in this National Stage				
Attachment(s)  1) Notice of References Cited (PTO-892)	4) ☐ Interview	Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date	Paper No	(s)/Mail Date Informal Patent Application (PTO-152)				

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#### **DETAILED ACTION**

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## Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 41 and 52 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. Claims 41 and 52 recite the limitation "the second annular ring" in line 2. There is insufficient antecedent basis for this limitation in the claim.

### Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 38-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 6,196,998 to Jansen et al., in view of U.S. Patent 6,632,199 to Tucker et al. Jansen discloses applicant's basic inventive concept, a tip cap (26, FIG. 5) designed for a syringe (10, FIG. 4), the tip cap comprising a housing comprising a bottom portion (74, FIG. 5) having an annular skirt (82, FIG. 5) extending there from and an annular ring (56, FIG. 4) located within the skirt, the annular ring having an interior surface (66, FIG. 4) and an exterior surface (see FIG. 4) and at

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least two deformable vertical strips (84, FIG. 4), capable of engaging and providing securement to a threaded (52, FIG. 8) luer connection (col 2, lines 55-68), substantially as claimed with the exception of having the at least two vertical strips on the exterior surface of said annular ring. Tucker shows a tip cap having the at least two vertical strips (66, FIG. 4) on the exterior surface (64, FIG. 4) of an annular ring to be old in the drug delivery and syringe art. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made from the teaching of Tucker to modify the system of Jansen, by having the at least two vertical strips on the outside surface of the annular ring instead of the inside surface of the annular skirt in order to provide stability and structural integrity (col 3, lines 27-29).

- 6. Claim 42 is rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 6,196,998 to Jansen et al., in view of U.S. Patent 6,632,199 to Tucker et al., as applied to claim 38 above, and further in view of U.S. Patent 6,027,482 to Imbert. Jansen in view of Tucker discloses applicant's basic inventive concept, a tip cap designed for a syringe, substantially as claimed with the exception of having a vent integral to the bottom portion of the tip cap housing. Imbert shows a vent (69, FIG. 4) integral to the bottom portion (56, FIG. 4) of the tip cap housing to be old in the drug delivery and syringe art. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made from the teaching of Imbert to modify the system of Jansen in view of Tucker, by adding a vent integral to the bottom portion of the tip cap housing in order to control gas flow to and from the syringe minimizing the occurrence of vacuum when the cap is removed from the tip (col 4, lines 43-48).
- 7. Claim 46 is rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 6,196,998 to Jansen et al., in view of U.S. Patent 6,632,199 to Tucker et al., as applied to claim

38 above, and further in view of U.S. Patent 6,206,861 to Mayer. Jansen in view of Tucker discloses applicant's basic inventive concept, a tip cap designed for a syringe, substantially as claimed with the exception of having an interior surface of the annular ring comprising one or more planar portions. Mayer shows an interior surface (88a, FIG. 7) of an annular ring (84a, FIG. 7) comprising one or more planar portions (94a, FIG. 7) to be old in the drug delivery and syringe art. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made from the teaching of Mayer to modify the system of Jansen in view of Tucker, by adding one or more planar portions to the interior surface of the annular ring in order to prevent bowing of the ring (col 18, lines 22-25).

8. Claims 47-49 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 6,196,998 to Jansen et al., in view of U.S. Patent 4,667,837 to Vitello et al. Jansen discloses applicant's basic inventive concept, a tip cap (26, FIG. 5) designed for a syringe (10, FIG. 4) having a barrel (12, FIG. 4), a syringe tip (22, FIG. 4) and a luer connection (44, FIG. 4) at a distal end of the barrel, the tip cap comprising a housing comprising a bottom portion (74) having an annular skirt (82) extending there from and an annular ring (56, FIG. 4) located within the skirt, said skirt extends approximately over the syringe such that the luer connection is contained within the interior of the housing (see FIG. 5), wherein upon engagement of the tip cap with the luer connection, the end of the skirt opposite the bottom portion surrounds a portion of the barrel, substantially as claimed with the exception of having the inner diameter of the skirt at the end of the skirt opposite the bottom portion greater than the outer diameter of the skirt opposite the bottom portion greater than the outer diameter of the skirt opposite the bottom portion greater than the outer diameter of the skirt opposite

the drug delivery and syringe art. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made from the teaching of Vitello to modify the system of Jansen, by having the inner diameter of the skirt at the end of the skirt opposite the bottom portion greater than the outer diameter of the syringe barrel in order to provide a tighter seal and prevent accidental movement of the tip once it is engaged with the cap.

- 9. Claims 50-51 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 6,196,998 to Jansen et al., in view of U.S. Patent 4,667,837 to Vitello et al., as applied to claim 47 above, and further in view of U.S. Patent 6,632,199 to Tucker et al. Jansen in view of Vitello discloses applicant's basic inventive concept, a tip cap designed for a syringe having a barrel, a syringe tip and a luer connection at a distal end of the barrel, and at least two deformable vertical strips (Jansen: 84, FIG. 4), capable of engaging and providing securement to a threaded (52, FIG. 8) luer connection (col 2, lines 55-68), substantially as claimed with the exception of having the at least two vertical strips on the exterior surface of said annular ring. Tucker shows a tip cap having the at least two vertical strips (66, FIG. 4) on the exterior surface (64, FIG. 4) of an annular ring to be old in the drug delivery and syringe art. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made from the teaching of Tucker to modify the system of Jansen in view of Vitello, by having the at least two vertical strips on the outside surface of the annular ring instead of the inside surface of the annular skirt in order to provide stability and structural integrity (col 3, lines 27-29).
- 10. Claim 53 is rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 6,196,998 to Jansen et al., in view of U.S. Patent 4,667,837 to Vitello et al., as applied to claim 47 above, and further in view of U.S. Patent 6,027,482 to Imbert. Jansen in view of Vitello

discloses applicant's basic inventive concept, a tip cap designed for a syringe having a barrel, a syringe tip and a luer connection at a distal end of the barrel, substantially as claimed with the exception of having a vent integral to the bottom portion of the tip cap housing. Imbert shows a vent (69, FIG. 4) integral to the bottom portion (56, FIG. 4) of the tip cap housing to be old in the drug delivery and syringe art. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made from the teaching of Imbert to modify the system of Jansen in view of Vitello, by adding a vent integral to the bottom portion of the tip cap housing in order to control gas flow to and from the syringe minimizing the occurrence of vacuum when the cap is removed from the tip (col 4, lines 43-48).

### Allowable Subject Matter

- 11. Claims 25-37 are allowed.
- 12. Claims 43-45 and 54-57 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

- 13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- U.S. Patent 6,394,983 to Mayoral, Joaquin et al. teaches a cap and luer connector for a fluid transfer device.

14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Filip Zec whose telephone number is (571) 272-4815. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Denise Esquivel can be reached on (571) 272-4808. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Filip Zec Examiner

SUPERVISORY PATENT EXAMINER

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